

## **SOFTWARE TESTING USING NON-REDUNDANT TEST CASES**

### **ABSTRACT OF THE DISCLOSURE**

Non-redundant software testing is provided based on changes in the execution paths of a software program. Upon changes to the code of the software program, changed or new execution paths are identified. Test cases capable of traversing the changed or new execution paths are then identified and executed to test the modified code. The difference between a first plurality of execution paths of the software program before the changes to the code and a second plurality of the execution paths of the software program after the changes to the code is identified. Test cases that intersect the changed paths may be identified and new test cases may be developed that would execute the changed paths.